

**AMENDMENTS TO THE CLAIMS:**

1. (Original) A method of selecting carriers to be measured by a subscriber unit served by a cellular communication system and operable to measure carriers in a frequency band, the method comprising the steps of

determining a measuring performance characteristic of the subscriber unit related to the measurement performance of the subscriber unit when measuring carriers in the frequency band; and

selecting a subset of carriers in the frequency band to be measured by the subscriber unit in response to the measuring performance characteristic.

2. (Original) A method of selecting carriers as claimed in claim 1 further comprising the step of transmitting identification of the subset of carriers to the subscriber unit.

3. (Currently Amended) A method of selecting carriers as claimed in claim 1 ~~or~~ 2 further comprising the step of the subscriber unit measuring the carriers of the subset of carriers.

4. (Currently Amended) A method of selecting carriers as claimed in ~~any of the~~ claims 1 ~~or~~ 3 wherein the measuring performance characteristic is indicative of the time required for the subscriber unit to measure carriers in the frequency band.

5. (Currently Amended) A method of selecting carriers as claimed in ~~any of the~~ claims 1 ~~or~~ 4 wherein the measuring performance characteristic is indicative of the number of receivers in the subscriber unit.

6. (Currently Amended) A method of selecting carriers as claimed in ~~any of the~~ claims 1 ~~or~~ 5 wherein the frequency band is a frequency band of a second communication system.

7. (Currently Amended) A method of selecting carriers as claimed in ~~any of the claims 1 or 6~~ wherein the cellular communication system and the second communication system use different radio access technologies.
8. (Original) A method of selecting carriers as claimed in claim 7 wherein the cellular communication system is a GSM communication system and the second communication system is a UMTS communication system.
9. (Original) A method of selecting carriers as claimed in claim 7 wherein the cellular communication system is a UMTS communication system and the second communication system is a GSM communication system.
10. (Currently Amended) A method of selecting carriers as claimed in ~~any of the claims 8 or 9~~ 7 wherein the measuring performance characteristic is determined from a subscriber unit capability report indicating if compressed mode is required to perform measurements on ~~the a~~ a GSM communication system.
11. (Currently Amended) A method of selecting carriers as claimed in ~~any of the claims 1 or 10~~ wherein the size of the subset of carriers is dependent on the performance characteristic.
12. (Currently Amended) A method of selecting carriers as claimed in ~~any of the claims 1 or 11~~ wherein the subset of carriers is an ordered subset of carriers and the order of carriers in the subset of carriers is dependent on the performance characteristic.
13. (Currently Amended) A method of selecting carriers as claimed in ~~any of the claims 1 or 12~~ further comprising the step of determining a handover candidate carrier from the subset of carriers.

14. (Currently Amended) A method of selecting carriers as claimed in ~~any of the claims 1 or 13~~ wherein the measuring performance characteristic is determined from the number of measurement reports reported from the subscriber unit within a given time interval.

15. (Original) An apparatus for selecting carriers to be measured by a subscriber unit served by a cellular communication system and operable to measure carriers in a frequency band, the method comprising:

means for determining a measuring performance characteristic of the subscriber unit related to the measurement performance of the subscriber unit when measuring carriers in the frequency band; and

means for selecting a subset of carriers in the frequency band to be measured by the subscriber unit in response to the measuring performance characteristic.

16. (Original) An apparatus as claimed in claim 15 further comprising means for transmitting identification of the subset of carriers to the subscriber unit.

17. (Currently Amended) An apparatus as claimed in ~~any of the claims 15 or 16~~ wherein the measuring performance characteristic is indicative of the time required for the subscriber unit to measure carriers in the frequency band.

18. (Currently Amended) An apparatus as claimed in ~~any of the claims 15 or 17~~ wherein the measuring performance characteristic is indicative of the number of receivers in the subscriber unit.

19. (Currently Amended) An apparatus as claimed in ~~any of the claims 15 or 18~~ wherein the frequency band is a frequency band of a second communication system.

20. (Original) An apparatus as claimed in claim 19 wherein the cellular communication system and the second communication system use different radio access technologies.

21. (Original) An apparatus as claimed in claim 20 wherein the cellular communication system is a GSM communication system and the second communication system is a UMTS communication system.

22. (Original) An apparatus as claimed in claim 20 wherein the cellular communication system is a UMTS communication system and the second communication system is a GSM communication system.

23. (Currently Amended) An apparatus as claimed in ~~any of the claims 21 or 22~~ 20 wherein the means for determining a measuring performance characteristic is operable to determine the measuring performance characteristic from a subscriber unit capability report indicating if compressed mode is required to perform measurements on ~~the~~ a GSM communication system.

24. (Currently Amended) An apparatus as claimed in ~~any of the claims 15 or 23~~ further comprising means for determining a handover candidate carrier from the subset of carriers.

25. (Currently Amended) An apparatus as claimed in any of the claims 15 ~~or 24~~ wherein the means for determining a measuring performance characteristic is operable to determine the measuring performance characteristic from the number of measurement reports reported from the subscriber unit within a given time interval.

26. (Currently Amended) A cellular communication system comprising the apparatus of ~~any of the preceding claims 15 or 25~~.

27. (Original) A subscriber unit operable to be served by a cellular communication system and to measure carriers in a frequency band, the subscriber unit comprising:

means for determining a measuring performance characteristic of the subscriber unit related to the measurement performance of the subscriber unit when measuring carriers in the frequency band; and

means for selecting a subset of carriers in the frequency band to be measured by the subscriber unit in response to the measuring performance characteristic; and

means for measuring the carriers of the subset of carriers.

28. (Original) A subscriber unit as claimed in claim 27 wherein the measuring performance characteristic is indicative of the time required for the subscriber unit to measure carriers in the frequency band.

29. (Currently Amended) A subscriber unit as claimed in ~~any of the claims 27 or 28~~ wherein the measuring performance characteristic is indicative of the number of receivers in the subscriber unit.

30. (Currently Amended) A subscriber unit as claimed in ~~any of the claims 27 or 29~~ wherein the frequency band is a frequency band of a second communication system.

31. (Currently Amended) A subscriber unit as claimed in ~~any of the claims 27 or 30~~ wherein the cellular communication system and the second communication system use different radio access technologies.

32. (Original) A subscriber unit as claimed in claim 31 wherein the cellular communication system is a GSM communication system and the second communication system is a UMTS communication system.

33. (Currently Amended) A subscriber unit as claimed in ~~any~~ claim 31 wherein the cellular communication system is a UMTS communication system and the second communication system is a GSM communication system.

34. (Currently Amended) A subscriber unit as claimed in ~~any of the claims 27 or 33~~ further comprising means for determining a handover candidate carrier from the subset of carriers.

Respectfully submitted,

Maya Benson et al.

By: 

Steven A. May

Attorney for Applicants

Registration No. 44,912

Phone No.: 847/576-3635

Fax No.: 847/576-3750